# Statement of Basis Automotive Coating Operations General Permit

# Permit to Construct P-2017.0021 Project No. 61870

Bedliners of Treasure Valley, Inc. dba Ameraguard of Treasure Valley Inc. Nampa, Idaho

Facility ID No. 027-00168

Final

May 10, 2017 Dan Pirman Permit Writer

The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01.et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

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### ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AQCR Air Quality Control Region

Btu British thermal units

CAS No. Chemical Abstracts Service registry number

CE Control Efficiency

CFR Code of Federal Regulations

CO carbon monoxide

DEQ Department of Environmental Quality

EL screening emission levels

EPA U.S. Environmental Protection Agency

gal/day gallons per calendar day

gal/hr gallons per hour

gallyr gallons per consecutive 12 calendar month period

gr grain (1 lb = 7,000 grains) HAP hazardous air pollutants HDI hexamethylene diisocyanate

hr/yr hours per year

HVLP high volume, low pressure (applies to paint guns)

IDAPA a numbering designation for all administrative rules in Idaho promulgated in accordance with the

Idaho Administrative Procedures Act

lb/gal pounds per gallon
lb/hr pounds per hour
MDI methylene diisocyanate

MMBtu million British thermal units MSDS Material Safety Data Sheet

NAICS North American Industry Classification System

NESHAP National Emission Standards for Hazardous Air Pollutants

NO<sub>2</sub> nitrogen dioxide NO<sub>x</sub> nitrogen oxides

NSPS New Source Performance Standards

PC permit condition

 $PM_{2.5}$  particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers  $PM_{10}$  particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers

ppm parts per million PTC permit to construct PTE potential to emit

Rules Rules for the Control of Air Pollution in Idaho

scf standard cubic feet

SIC Standard Industrial Classification

SM80 synthetic minor facility with emissions greater than or equal to 80% of a major source threshold

 $SO_2$  sulfur dioxide  $SO_X$  sulfur oxides

T/yr tons per consecutive 12-calendar month period

T2 Tier II operating permit toxic air pollutants
TE Transfer Efficiency

UTM Universal Transverse Mercator VOC volatile organic compounds

#### **FACILITY INFORMATION**

### Description

Bedliners of Treasure Valley Inc. dba Ameraguard of Treasure Valley is an auto coating operation with spray booth(s). The booth is a pressurized semi-down draft/back wall draft booth with dry filtration media system for control of particulate emissions. The process includes application of coatings via a HVLP (or equivalent) application gun. In this case "or equivalent" means an application gun that has a minimum 65% transfer efficiency as documented by the spray gun manufacturer.

The applicant requested to apply bed liner type coating material. Since this permit is a general permit for autocoating operations it also allows painting of autos. The facility does not have heaters to dry coatings.

### Permitting History

This is the initial PTC for a new facility thus there is no permitting history.

### **Application Scope**

This is the initial PTC for a new facility.

### Application Chronology

April 13, 2017	DEQ received an application and an application fee and the processing fee.	
April 20 – May 5, 2017	DEQ provided an opportunity to request a public comment period on the application and proposed permitting action.	
April 17, 2017	DEQ received supplemental information from the applicant.	•
Month Day, Year	DEQ determined that the application was complete.	dij.
April 17, 2017	DEQ made available the draft permit and statement of basis for peer review	

#### **TECHNICAL ANALYSIS**

The facility utilizes dry fiber filtration media system for control of particulate matter emissions from the automotive coating operation. In addition, HVLP paint guns (or equivalent) are used to minimize all particulate matter emissions and VOC emissions from coating operations. The HVLP (or equivalent) spray equipment will control PM<sub>10</sub> and VOC emissions by having more coating transfer to the desired surfaces than traditional painting equipment.

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### **Emissions Units and Control Devices**

#### Table 1 EMISSIONS UNIT AND CONTROL DEVICE INFORMATION

ID No.	Source Description	Control Equipment Description	Emissions Point ID No. and Description
Automotive Coating Operation	Coating spray booth(s):  Manufacturer(s): Koch or equivalent  Model(s): 20X25X2 or equivalent  Note: The number of booths installed at the facility is not limited by this permit.	Coating spray booth(s) and/or preparation station filter system:  Booth Type(s): Semi-down draft/back wall draft Particulate filtration method: Dry Filters Manufacturer(s): Devilbiss or equivalent Model(s): Flex-Built or equivalent PM/PM <sub>10</sub> Efficiency: 98% or greater  Coating spray gun(s): Manufacturer: Glas-Craft or equivalent Model: Probler 17254 or equivalent Type: HVLP or equivalent Transfer Efficiency: 65% or greater	Paint booth exhaust stack and/or preparation station exhaust stack

#### Emissions Inventories

#### **Potential to Emit**

IDAPA 58.01.01.006 defines Potential to Emit as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is state or federally enforceable. Secondary emissions do not count in determining the potential to emit of a facility or stationary source.

Using this definition of Potential to Emit an emission inventory was developed for the automotive coating operation associated with this proposed project (see Appendix A for detailed potential to emit calculations). Criteria pollutant and HAPs PTE were based on the worst-case VOC, PM<sub>10</sub>, and HAPs content for coatings as taken from the DEQ Automotive Coating EI spreadsheet (see the DEQ website).

#### **Uncontrolled Potential to Emit**

Using the definition of Potential to Emit, uncontrolled Potential to Emit is then defined as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall <u>not</u> be treated as part of its design <u>since</u> the limitation or the effect it would have on emissions is not state or federally enforceable.

The uncontrolled Potential to Emit is used to determine if a facility is a "Synthetic Minor" source of emissions. Synthetic Minor sources are facilities that have an uncontrolled Potential to Emit for criteria pollutants or HAPs above the applicable Major Source threshold without permit limits.

The following table presents the uncontrolled Potential to Emit for criteria pollutants as determined by DEQ staff. See Appendix A for a detailed presentation of the calculations and the assumptions used to determine emissions for each emissions unit. For this automotive coating operation uncontrolled Potential to Emit is based upon a worst-case for operation of the facility of 2,080 hrs/yr (8 hrs/day x 260 days/yr) with all coating operations occurring during this time. Since there is prep time (the time spent preparing the automobile for the application of coating) and paint drying time (the time the automobile spends in the booth with the burner operating to facilitate hardening of the coating) associated with applying coatings, this was considered to be the worst-case maximum for which emissions would occur.

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Table 2 UNCONTROLLED POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

Emissions Unit	PM <sub>10</sub> /PM <sub>2.5</sub> T/yr	SO <sub>2</sub> T/yr	NO <sub>X</sub> T/yr	CO T/yr	VOC T/yr	Lead lb/quarter		
Point Sources								
Paint spray booth(s) and/or preparation station(s)	5.7	0.0	0.0	0.0	18.69	0.0		
Total, Point Sources	5.70	0.00	0.00	0.00	18.69	0.00		

The following table presents the uncontrolled Potential to Emit for HAP pollutants as determined by DEQ staff. For this automotive coating operation uncontrolled HAP emissions were calculated by using the DEQ Automotive Coating EI spreadsheet (see the DEQ website) and setting paint use to 4.0 gallons per day (as limited by the permit). Then, the worst-case maximum HAPs Potential to Emit was determined for all paints listed in the spreadsheet. As discussed previously, HAP emissions were assumed to occur during the worst-case for operation of the facility of 2,080 hrs/yr.

Table 3 UNCONTROLLED POTENTIAL TO EMIT FOR HAPs<sup>a</sup>

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.36
Total	11.87

a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs

### **Pre-Project Potential to Emit**

Pre-project Potential to Emit is used to establish the change in emissions at a facility as a result of this project.

This is an existing facility. However, since this is the first time the facility is receiving a permit, pre-project emissions are set to zero for all criteria pollutants.

#### **Post Project Potential to Emit**

Post project Potential to Emit is used to establish the change in emissions at a facility and to determine the facility's classification as a result of this project. Post project Potential to Emit includes all permit limits resulting from this project.

The following table presents the post project Potential to Emit for criteria pollutants from auto coating operations at the facility as determined by DEQ staff. See Appendix A for a detailed presentation of the calculations of these emissions for each emissions unit.

Table 4 POST PROJECT POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

Emissions IIvi4	PM <sub>10</sub> /	PM <sub>2,5</sub>	SC	$O_2$	NO	$O_{\mathbf{X}}$	C	O	V	OC	Le	ad
Emissions Unit	lb/hr <sup>a</sup>	T/yrb	lb/hrª	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr <sup>a</sup>	T/yr <sup>b</sup>	lb/hr	T/yr
Point Sources												
Paint spray booth(s) and/or preparation station(s)	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.00	4.27	18.69	0	. 0
Post-Project Totals	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.00	4.27	18.69	0.00	0.00

a) Controlled average emission rate in pounds per hour is a daily average, based on the proposed daily operating schedule and daily limits.

b) Controlled average emission rate in tons per year is an annual average, based on the proposed annual operating schedule and annual limits.

The following table presents the post project Potential to Emit for HAP pollutants from auto coating operations at the facility as determined by DEQ staff. The DEQ Automotive Coating EI spreadsheet (see the DEQ website) was used to determine post project Potential to Emit for HAP pollutants. The table only lists those individual HAPs that are emitted in the greatest quantities; see Appendix A for a complete listing of all HAPs.

Table 5 POST PROJECT POTENTIAL TO EMIT FOR HAPsa

HAP Pollutants	PTE (T/yr)
Ethyl benzene	0.61
Methyl Isobutyl Ketone (MIBK)	1.26
Naphthalene	2.34
Toluene	1.92
Styrene	2.51
Xylene (o-, m-, p-isomers)	2.36
Total	11.87

a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs

#### Change in Potential to Emit

The project's change in Potential to Emit is used to determine if a public comment period may be required or if emissions modeling may be required, and to determine the processing fee per IDAPA 58.01.01.225.

The following table presents the change in the Potential to Emit for criteria pollutants as a result of this project.

Table 6 CHANGES IN POTENTIAL TO EMIT FOR CRITERIA POLLUTANTS

	PM <sub>10</sub> /	PM <sub>2.5</sub>	S	$O_2$	N	$O_{X}$	C	0	V	OC	Le	ad
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Point Sources												
Pre-Project Potential to Emit	0.0	0.0	0.0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Post Project Potential to Emit	0.03	0.11	0	0	0	0	0	0	4.27	1869	0.00	0.00
Changes in Potential to Emit	0.03	0.11	0.00	0.00	0.00	0.00	0.00	0.00	4.27	18.69	0.00	0.00

#### Non-Carcinogenic and Carcinogenic TAPs Potential to Emit

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating "General Permit", no ELs specified in IDAPA 58.01.01.585 or 586 are expected to be exceeded by the facility (see the DEQ Automotive Coating EI spreadsheet on the DEQ website).

### Ambient Air Quality Impact Analyses

Because of the daily coating material use limits imposed by DEQ, and agreed to by the facility in applying for this Automotive Coating "General Permit", it needs to be determined if the PTE for the automotive coating operation exceeds the DEQ modeling guideline thresholds. The following table compares the post-project facility-wide annual emissions to the DEQ modeling guideline thresholds (per the State of Idaho Air Quality Modeling Guideline, September 2013).

Table 7 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE DEQ MODELING GUIDELINE THRESHOLDS

Pollutant	PTE (T/yr)	DEQ Modeling Guideline Thresholds (T/yr)	Exceeds Modeling Guideline Threshold?
PM <sub>10</sub>	0.11	1.5	No
PM <sub>2.5</sub>	0.11	1.0	No
SO <sub>2</sub>	0	4.0	No
NO <sub>X</sub>	0	4.0	No
CO	0	10.0	No
Lead	0	0.06	No

Modeling analyses was not performed for this project, because the facility-wide emissions of all regulated air pollutants except VOC were below the "below regulatory concern" (BRC) threshold levels of less than 10% of "significant" emission rates for criteria pollutants as defined in IDAPA 58.01.01.006. Modeling of TAP was not conducted, because the uncontrolled or controlled maximum emission rates of each TAP were below applicable screening emission levels (EL) in IDAPA 58.01.01.585–586. Refer to the Emissions Inventories section and Appendix A for additional information concerning the emission inventories.

#### REGULATORY ANALYSIS

### Attainment Designation (40 CFR 81.313)

Bedliners of Treasure Valley Inc. dba Ameraguard of Treasure Valley is located in Canyon County, which is designated as attainment or unclassifiable for PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>2</sub>, CO, and Ozone. Refer to 40 CFR 81.313 for additional information.

### Facility Classification AIRS/AFS

"Synthetic Minor" for AIRS/AFS classification for criteria pollutants is defined as the uncontrolled Potential to Emit for criteria pollutants are above the applicable major source thresholds and the Potential to Emit for criteria pollutants fall below the applicable major source thresholds. Therefore, the following table compares the uncontrolled Potential to Emit and the Potential to Emit for criteria pollutants to the Major Source thresholds to determine if the facility will be "Synthetic Minor."

Table 8 UNCONTROLLED PTE AND PTE FOR CRITERIA POLLUTANTS COMPARED TO THE MAJOR SOURCE THRESHOLDS

Pollutant	Uncontrolled PTE (T/yr)	PTE (T/yr)	Major Source Thresholds (T/yr)	Uncontrolled PTE Exceeds the Major Source Threshold and PTE Exceeds the Major Source Threshold?
PM <sub>10</sub>	5.7	0.11	100	No
PM <sub>2.5</sub>	5.7	0.11	100	No
SO <sub>2</sub>	0	0	100	No
NO <sub>X</sub>	0	0	100	No
CO	0	0	100	No
VOC	18.69	18.69	100	No

"Synthetic Minor" for AIRS/AFS classification for HAP pollutants is defined as the uncontrolled Potential to Emit for HAP pollutants are above the applicable major source thresholds and the Potential to Emit for HAPs pollutants fall below the applicable major source thresholds. Therefore, the following table compares the uncontrolled Potential to Emit and the Potential to Emit for HAP pollutants to the Major Source thresholds to determine if the facility will be "Synthetic Minor."

Table 9 UNCONTROLED PTE AND PTE FOR HAPS POLLUTANTS COMPARED TO THE MAJOR SOURCE THRESHOLDS<sup>a</sup>

HAP Pollutant	Uncontrolled PTE (T/yr)	PTE (T/yr)	Major Source Thresholds (T/yr)	Uncontrolled PTE Exceeds the Major Source Threshold and PTE Exceeds the Major Source Threshold?
Ethyl benzene	0.61	0.61	10	No
Methyl Isobutyl Ketone (MIBK)	1.26	1.26	10	No
Naphthalene	2.34	2.34	10	No
Toluene	1.92	1.92	10	No
Styrene	2.51	2.51	10	No
Xylene (o-, m-, p- isomers)	2.36	2.36	10	No
Total	11.87	11.87	25	No

a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs

As demonstrated in Table 8 the facility has an uncontrolled potential to emit for PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>X</sub>, CO, and VOC emissions are less than the Major Source thresholds of 100 T/yr for each pollutant. In addition, as demonstrated in Table 9 the facility has an uncontrolled potential for each HAP less than the Major Source threshold of 10 T/yr and for all HAPs combined less than the Major Source threshold of 25 T/yr. Therefore, this facility is not designated as a Synthetic Minor facility.

### PTC Permit to Construct (IDAPA 58.01.01.201)

IDAPA 58.01.01.201

Permit to Construct Required

The PTC rules under IDAPA 58.01.01.201 require that "No owner or operator may commence construction or modification of any stationary source, facility, major facility, or major modification without first obtaining a permit to construct from the Department which satisfies the requirements of Sections 200 through 228 unless the source is exempted in any of Sections 220 through 223." Therefore, DEQ staff analyzed the data from the permit application for the installation of this automotive coating operation to determine if it is exempt from obtaining a PTC according to Sections 220 through 223.

IDAPA 58.01.01.220

General Exemption Criteria for Permit to Construct Exemptions

In accordance with IDAPA 58.01.01.220.01.a, the maximum capacity of the source to emit an air pollutant under its physical and operational design without consideration of limitations on emissions such as air pollution control equipment, restrictions on hours of operation and restrictions on the type and amount of material combusted, stored, or processed shall not equal or exceed 100 tons/yr for all regulated air pollutants. As previously presented in Table 2, the proposed project results in uncontrolled potential emissions of less than 100 tons/yr for all regulated air pollutants. Therefore, the project meets the criteria set forth in Section 220 and may be exempt from PTC requirements. In addition, the criteria set forth in Section 221, 222, or 223 must be met to be exempt from PTC requirements.

#### IDAPA 58.01.01.221

#### Category I Exemption Criteria

In accordance with IDAPA 58.01.01.221.01, the maximum capacity of a source to emit an air pollutant under its physical and operational design considering limitations on emissions such as air pollution control equipment, restrictions on hours of operation and restrictions on the type and amount of material combusted, stored or processed shall be less than ten percent (10%) of the significant emission rates set out in the definition of significant at Section 006. The following table compares the post-project facility-wide annual PTE to 10% of the significance threshold listed in IDAPA 58.01.01.006 in order to determine if the project may qualify for a Category I exemption.

Pollutant	PTE (T/yr)	10% of the Significance Threshold (T/yr)	Exceeds 10% of the Significance Threshold?
PM <sub>10</sub>	0.11	1.5	No
PM <sub>2.5</sub>	0.11	1.0	No
SO <sub>2</sub>	0	4.0	No
NO <sub>X</sub>	0	4.0	No
CO	0	10.0	No
VOC	18.69	4.0	Yes

Table 10 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE SIGNIFICANCE THRESHOLDS

The potential VOC emission rate of the proposed project is indicated in Table 10 above, which is above 10% of the significant emission rate listed in IDAPA 58.01.01.006. Therefore, the permitting of an existing automotive coating operation does not qualify for a Category I exemption.

### Tier II Operating Permit (IDAPA 58.01.01.401)

IDAPA 58.01.01.401

Tier II Operating Permit

The application was submitted for a permit to construct (refer to the Permit to Construct section), and an optional Tier II operating permit has not been requested. Therefore, the procedures of IDAPA 58.01.01.400–410 were not applicable to this permitting action.

### Visible Emissions (IDAPA 58.01.01.625)

IDAPA 58.01.01.625

Visible Emissions

The emissions from the automotive coating process are subject to the State of Idaho visible emissions standard of 20% opacity. This requirement is assured by Permit Condition 6.

### Rules for the Control of Odors (IDAPA 58.01.01.775-776)

IDAPA 58.01.01.775-776

Rules for the Control of Odors

The facility is subject to the general restrictions for the control of odors from the facility. This requirement is assured by Permit Conditions 7 and 12.

### Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)

IDAPA 58.01.01.301 Requirement to Obtain Tier I Operating Permit

IDAPA 58.01.01.006 defines a Tier I source as "Any source located at a major facility as defined in Section 008." IDAPA 58.01.01.008 defines a Major Facility as either:

• For HAPS a facility with the potential to emit ten (10) tons per year (T/yr) or more of any hazardous air pollutant, other than radionuclides, or

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• The facility emits or has the potential to emit twenty-five (25) T/yr or more of any combination of any hazardous air pollutants, other than radionuclides.

#### Or, for non-attainment areas:

- The facility is located in a "serious" particulate matter ( $PM_{10}$ ) nonattainment area and the facility has the potential to emit seventy (70) T/yr or more of  $PM_{10}$ , or
- The facility is located in a "serious" carbon monoxide nonattainment area in which stationary sources are significant contributors to carbon monoxide levels and the facility has the potential to emit fifty (50) T/yr or more of carbon monoxide, or
- The facility is located in an ozone transport region established pursuant to 42 U.S.C. Section 7511c and the facility has the potential to emit fifty (50) T/yr or more of volatile organic compounds, or
- The facility is located in an ozone nonattainment area and, depending upon the classification of the nonattainment area, the facility has the potential to emit the following amounts of volatile organic compounds or oxides of nitrogen; provided that oxides of nitrogen shall not be included if the facility has been identified in accordance with 42 U.S.C. Section 7411a(f)(1) or (2) if the area is "marginal" or "moderate," one hundred (100) T/yr or more, if the area is "serious," fifty (50) T/yr or more, if the area is "severe," twenty-five (25) T/yr or more, and if the area is "extreme," ten (10) T/yr or more.
- The facility emits or has the potential to emit one hundred (100) T/yr or more of any regulated air pollutant. The fugitive emissions shall not be considered in determining whether the facility is a "Designated Facility":

Uncontrolled HAP emissions were calculated by using the DEQ Automotive Coating EI spreadsheet (see the DEQ website) and setting paint use to 4.0 gallons per day (as limited by the permit). Then worst-case HAP emissions were determined for all paints listed in the spreadsheet. Then emissions were assumed to occur 2,080 hours per year as a worst-case assumption.

The following table compares the post-project facility-wide annual worst-case uncontrolled emission rate for all HAPs emitted by the source to the HAPS Major Source thresholds in order to determine if the facility is a HAPs Major Source.

Table 11 PTE FOR HAPS POLLUTANTS COMPARED TO THE HAPS MAJOR SOURCE THRESHOLDS<sup>a</sup>

HAP Pollutants	PTE (T/yr)	Major Source Threshold (T/yr)	Exceeds the Major Source Threshold?	
Ethyl benzene	0.61	10	No	
Methyl Isobutyl Ketone (MIBK)	1.26	10	No	
Naphthalene	2.34	10	No	
Toluene	1.92	10	No	
Styrene	2.51	10	No	
Xylene (o-, m-, p-isomers)	2.36	10	No	
Total	11.87	25	No	

a) The table does not list all individual HAPs, however the total PTE value reflects all HAPs

As presented in the preceding table the PTE for each HAP is less than 10 T/yr and the PTE for all HAPs combined is less than 25 T/yr. Therefore, this facility is not a HAPs Major Source subject to Tier I permitting requirements.

As discussed previously the Bedliners of Treasure Valley Inc. dba Ameraguard of Treasure Valley facility is located in Canyon County (AQCR 64), which is designated as unclassifiable/attainment for PM<sub>2.5</sub>, PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>X</sub>, CO, and Ozone for federal and state criteria air pollutants. Therefore, the following table compares the post-project facility-wide annual PTE for all criteria pollutants emitted by the source to the applicable criteria pollutant Major Source thresholds in order to determine if the facility is a criteria pollutant Major Source.

Table 12 PTE FOR CRITERIA POLLUTANTS COMPARED TO THE CRITERIA POLLUTANT MAJOR SOURCE THRESHOLDS

Criteria Pollutants	PTE (T/yr)	Major Source Threshold (T/yr)	Exceeds the Major Source Threshold?				
PM <sub>10</sub>	0.11	100	No				
PM <sub>2.5</sub>	0.11	100	No				
SO <sub>2</sub>	0	100	No				
NO <sub>X</sub>	0	100	No				
СО	0	100	No				
VOC	18.69	100	No				

As presented in the preceding table the PTE for each criteria pollutant is less than 100 T/yr. Therefore, this facility is not a criteria pollutant Major Source subject to Tier I permitting requirements.

### PSD Classification (40 CFR 52.21)

40 CFR 52.21

Prevention of Significant Deterioration of Air Quality

The facility is not a major stationary source as defined in 40 CFR 52.21(b)(1), nor is it undergoing any physical change at a stationary source, not otherwise qualifying under paragraph 40 CFR 52.21(b)(1) as a major stationary source, that would constitute a major stationary source by itself as defined in 40 CFR 52. Therefore, in accordance with 40 CFR 52.21(a)(2), the PSD requirements do not apply.

### NSPS Applicability (40 CFR 60)

The facility is not subject to any NSPS requirements.

### **NESHAP Applicability (40 CFR 61)**

The facility is not subject to any NESHAP requirements in 40 CFR 61.

### MACT Applicability (40 CFR 63)

40 CFR 63, Subpart HHHHHHH

National Emission Standards for Hazardous Air Pollutants: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources

§ 63.11169

What is the purpose of this subpart?

In accordance with §63.11169, subpart HHHHHHH establishes national emission standards for hazardous air pollutants (HAP) for area sources involved in auto body refinishing operations that encompass motor vehicle and mobile equipment spray-applied surface coating operations.

§ 63.11170

Am I subject to this subpart?

In accordance with §63.11170(a), this automotive coating operation is subject to this subpart because the facility will be operated as an area source of HAP. The facility is a source of HAP that is not a major source of HAP, is not located at a major source, and is not part of a major source of HAP emissions. In addition, the facility will perform one or more activities listed in this section, including spray application of coatings, as defined in §63.11180, to motor vehicles and mobile equipment including operations that are located in stationary structures at fixed locations.

§ 63.11171 How do I know if my source is considered a new source or an existing source?

In accordance with §63.11171(b), the automotive coating operation is the collection of mixing rooms and equipment; spray booths, curing ovens, and associated equipment; spray guns and associated equipment; spray gun cleaning equipment; and equipment used for storage, handling, recovery, or recycling of cleaning solvent or waste paint. Paint stripping was not proposed as a business activity.

In accordance with §63.11171(c), this automotive coating operation is a new source because it will commence construction after September 17, 2007, by installing new paint stripping or surface coating equipment, and the new surface coating equipment will be used at a source that was not actively engaged in paint stripping and/or miscellaneous surface coating prior to September 17, 2007.

§ 63.11172 When do I have to comply with this subpart?

In accordance with §63.11172(a)(2), because the initial startup of the facility will occur after January 9, 2008, the compliance date is the date of initial startup of the automotive coating operation.

§ 63.11173 What are my general requirements for complying with this subpart?

Because the facility has not proposed paint-stripping activities, the requirements of §63.11173(a) through (f) are not applicable. Because the facility is an automotive coating operation, in accordance with §63.11173(e), the permittee must meet the requirements of in paragraphs (e)(1) through (e)(5) of this section.

In accordance with §63.11173(f), each owner or operator of an affected automotive coating operation must ensure and certify that all new and existing personnel, including contract personnel, who spray apply surface coatings, as defined in §63.11180, are trained in the proper application of surface coatings as required by paragraph (e)(1) of this section. The training program must include, at a minimum, the items listed in paragraphs (f)(1) through (f)(3) of this section.

In accordance with §63.11173(g), as required by paragraph (e)(1) of this section, all new and existing personnel at an affected motor vehicle and mobile equipment or miscellaneous surface coating source, including contract personnel, who spray apply surface coatings, as defined in §63.11180, must be trained by the dates specified in paragraphs (g)(1) and (2) of this section. Employees who transfer within a company to a position as a painter are subject to the same requirements as a new hire.

Compliance with these requirements is assured by permit condition 16.

§ 63.11174 What parts of the General Provisions apply to me?

In accordance with §63.11174(a), Table 1 of this subpart shows which parts of the General Provisions in subpart A apply. Compliance with these requirements is assured by permit condition 16.

In accordance with §63.11174(b), an owner or operator of an area source subject to this subpart is exempt from the obligation to obtain a permit under 40 CFR part 70 or 71 provided that a permit under 40 CFR 70.3(a) or 71.3(a) is not required for a reason other than becoming area source subject to this subpart. This permit application and permitting action involve a Permit to Construct, and will not utilize the requirements and procedures in IDAPA 58.01.01.300-399 for the issuance of Tier I operating permits.

§ 63.11175 What notifications must I submit?

In accordance with §63.11175(a), because the facility is a surface coating operation subject to this subpart, the initial notification required by §63.9(b) must be submitted. For this new operation, the Initial Notification must be submitted no later than 180 days after initial startup.

In accordance with §63.11175(b), because the facility is a new source, the permittee is not required to submit a separate notification of compliance status in addition to the initial notification specified in paragraph (a) of this subpart provided the permittee was able to certify compliance on the date of the initial notification, as part of the initial notification, and the permittee's compliance status has not since changed. The permittee must submit a Notification of Compliance Status on or before March 11, 2011. The permittee is required to submit the information specified in paragraphs (b)(1) through (4) of this section with the Notification of Compliance Status.

Compliance with these requirements is assured by permit condition 18.

#### § 63.11176 What reports must I submit?

In accordance with §63.11176(a), because the permittee is an owner or operator of a paint stripping, motor vehicle or mobile equipment, or miscellaneous surface coating affected source, the permittee is required to submit a report in each calendar year in which information previously submitted in either the initial notification required by §63.11175(a), Notification of Compliance, or a previous annual notification of changes report submitted under this paragraph, has changed. Deviations from the relevant requirements in §63.11173(a) through (d) or §63.11173(e) through (g) on the date of the report will be deemed to be a change. The annual notification of changes report must be submitted prior to March 1 of each calendar year when reportable changes have occurred and must include the information specified in paragraphs (a)(1) through (2) of this section.

Compliance with these requirements is assured by permit condition 19.

Because the facility has not proposed to conduct paint stripping operations, the MeCl minimization plan requirements are not applicable (see permit condition 8).

§ 63.11177 What records must I keep?

In accordance with §63.11177, because the permittee is the owner or operator of a surface coating operation, the permittee must keep the records specified in paragraphs (a) through (d) and (g) of this section. Because the permittee has not proposed to conduct paint stripping operations, the requirements of paragraphs (e) and (f) of this section are not applicable. Compliance with these requirements is assured by permit condition 17.

§ 63.11178 In what form and for how long must I keep my records?

In accordance with 40 CFR 63.11178(a) because the permittee is the owner or operator of an affected source, the permittee must maintain copies of the records specified in §63.11177 for a period of at least five years after the date of each record. Copies of records must be kept on site and in a printed or electronic form that is readily accessible for inspection for at least the first two years after their date, and may be kept off-site after that two year period. Compliance with these requirements is assured by permit condition 17.

§ 63.11179 Who implements and enforces this subpart?

In accordance with §63.11179(a), this subpart can be implemented and enforced by the U.S. Environmental Protection Agency (EPA), or a delegated authority. At the time of this permitting action, the EPA has not delegated authority to the State of Idaho. However, IDAPA 58.01.01.107.03.i incorporates by reference all Federal Clean Air Act requirements including 40 CFR 63, Subpart HHHHHHH. Therefore, the requirements of this subpart have been placed in the permit.

§ 63.11180 What definitions do I need to know?

Terms used in this subpart are defined in accordance with §63.11180.

#### Permit Conditions Review

This section describes the permit conditions for this initial permit.

Permit condition 1 establishes the permit to construct scope.

Permit condition 2 provides a description of the regulated sources and the control devices used at the facility.

Permit condition 3 provides a process description of the facility.

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Permit condition 4 provides a description of the control devices used at the facility.

Permit condition 5 establishes hourly and annual emissions limits for PM<sub>10</sub> and VOC emissions from the automotive coating operation.

As mentioned previously, Permit Condition 6 establishes a 20% opacity limit for the booth stacks, vents, or functionally equivalent openings associated with the automotive coating operation.

As mentioned previously, Permit Condition 7 establishes that the permittee shall not allow, suffer, cause, or permit the emission of odorous gasses, liquids, or solids to the atmosphere in such quantities as to cause air pollution.

Permit condition 8 establishes that the facility will not use MeCl to remove paint from vehicles at the facility. This was done because MeCl was not proposed to be used at this facility by the Applicant and the emissions were not included in the DEQ Automotive Coating El Spreadsheet (see the DEQ website). In addition, Subpart HHHHHHH has additional requirements for facilities that use MeCl to remove paint as mentioned previously in the discussion of Subpart HHHHHHH in the MACT Applicability Section.

Permit condition 9 establishes a daily use limit for all coating materials used in the automotive coating process as proposed by the Applicant. This limit was established because it was the easiest way for the Applicant to demonstrate compliance with the PM<sub>10</sub> and VOC emissions limit specified in permit condition 5 and the TAPs emissions limits specified in the DEQ Automotive Coating EI Spreadsheet (see the DEQ website).

Permit Condition 10 excludes bed liner component B coatings from each daily usage total. For those bed liner coatings analyzed, component B coatings did not contain substances which would result in emissions of regulated TAP. (Use of component B coatings did result in additional VOC emissions which were included in the emission inventories; see Appendix A.) Component A coatings (also referred to as the "iso" component) <u>are</u> counted toward the daily usage limit in Permit Condition 9 because these coatings contain isocyanates (including HDI and/or MDI) which result in the emissions of regulated TAP.

Permit Condition 11 requires all coating operations to occur in a booth and all coating applications be conducted using a HVLP spray gun.

Permit condition 12 establishes that the permittee shall maintain records of all odor complaints received, perform appropriate corrective actions, and maintain records of corrective actions taken at the facility for the automotive coating process. This was required because automotive operation operations may have odors that might be offensive to their immediate neighbors.

Permit condition 13 establishes that the permittee shall maintain material purchase records and Material Safety Data Sheets (MSDS) for the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit Permit Condition.

Permit condition 14 establishes that the permittee shall maintain daily usage records of pre-treatment wash primer, primer, topcoat, clear coat, thinner/reducer, undercoatings, and bed liner components containing isocyanates materials which are used for the automotive coating process. This condition was placed in the permit to ensure compliance with the Coating Materials Use Limit permit condition.

Permit condition 15 establishes that the permittee shall maintain records as required by the General Provision recordkeeping requirements.

Permit condition 16 establishes parameters that will allow the facility to comply with the general operating requirements of 40 CFR 63, Subpart HHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHH.

Permit condition 17 establishes parameters that will allow the facility to comply with the monitoring and recordkeeping requirements of 40 CFR 63, Subpart HHHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHHH.

Permit condition 18 establishes parameters that will allow the facility to comply with the initial notification and reporting requirements of 40 CFR 63, Subpart HHHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHHH.

Permit condition 19 establishes parameters that will allow the facility to comply with the annual notification and reporting requirements of 40 CFR 63, Subpart HHHHHHH – MACT Standards and Management Practices for Paint Stripping and Miscellaneous Coating Operations unless the facility is exempt from HHHHHHH.

Permit condition 20 establishes that the federal requirements of 40 CFR Part 63 are incorporated by reference into the requirements of this permit per current DEQ guidance.

### **PUBLIC REVIEW**

### **Public Comment Opportunity**

An opportunity for public comment period on the application was provided in accordance with IDAPA 58.01.01.209.01.c or IDAPA 58.01.01.404.01.c. During this time, there were no comments on the application and there was not a request for a public comment period on DEQ's proposed action. Refer to the chronology for public comment opportunity dates.

#### APPENDIX A – EMISSIONS INVENTORIES

#### Coating Operation Emissions Calculations:

A daily coatings material use limit needs to be established for Automotive Coating operations that demonstrates compliance with State Law. Specifically, compliance with IDAPA 58.01.01.585 and .586 for toxic air pollutants (TAPs) needs to be determined. Therefore, DEQ staff created the DEQ Automotive Coating EI spreadsheet (see the DEQ website). This spreadsheet contains paints from two different manufacturers of paints used in the automotive coating industry and multiple paint systems for each brand. The paint brands chosen were based upon discussions with a national paint distributor with several stores throughout the state of Idaho. The TAPs data entered in the spreadsheet was taken from the MSDSs for the paints listed. Included in the calculations was a safety factor of 19% since all paints available were not analyzed. With this safety factor it is reasonably presumed that the data represents all available automotive coatings. The spreadsheet was then used to demonstrate that with 4.0 gallons per day of coating use, the ELs listed in IDAPA 58.01.01.585 and .586 would not be exceeded for any of the coatings listed in the spreadsheet. The 4.0 gallons per day of coating was then used to determine worst-case PM<sub>10</sub> and VOC emissions from Automotive Coating operations (see the DEQ Automotive Coatings EI spreadsheet (see the DEQ website)):

Spray booth emissions of methylene diisocyanate (MDI) resulting from the application of the "iso" component coating during bed lining coating operations were estimated using the equation and assumptions from Section 19.0 of the MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry. In this equation it was assumed that 100% of the "iso" component sprayed was MDI ( $k_{MDI} = 1.0$ ), that the combined spray and dry time to apply up to 4 gallons of MDI-based "iso" component was 4 hours or less per day, that "iso" spray coatings were applied 365 days per year, and that "iso" spray coatings were applied at less than 95°F. Although spray booth filtration is required, no additional removal or reduction of MDI emissions was assumed (0% control efficiency).

Uncontrolled emissions are based upon normal operation of the facility of 2,080 hrs/yr (8 hrs/day x 260 days/yr, normal business hours) with all coating operation occurring during this time. Since there is inherent prep time (the time spent preparing the automobile for the application of coating) and paint drying time (the time the automobile spends in the booth with the burner operating to facilitate hardening of the coating) this was considered to be the worst-case maximum for which emissions could occur.

Therefore, uncontrolled annual PM emissions are calculated using the annual PTE as calculated and backing out the 98% control efficiency of the filter system.

Uncontrolled annual PM<sub>10</sub> emissions from the coating operation are calculated as:

Uncontrolled Annual PM<sub>10</sub> emissions = PM<sub>10</sub> PTE (T-PM<sub>10</sub>/yr)  $\div$  (1 – Filter CE)

Uncontrolled Annual PM<sub>10</sub> emissions = 0.11 T-PM<sub>10</sub>/yr  $\div$  (1 – 0.98) = 5.7 T-PM<sub>10</sub>/yr

Therefore, uncontrolled annual VOC emissions are calculated using the annual PTE as calculated.

Uncontrolled annual VOC emissions are equal to annual PTE as calculated.

Uncontrolled Annual VOC emissions = VOC PTE (T-VOC/yr)

Uncontrolled Annual VOC emissions = 18.69 T-VOC/yr

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<sup>&</sup>lt;sup>1</sup> MDI/Polymeric MDI Emissions Reporting Guidelines for the Polyurethane Industry, Alliance for the Polyurethanes Industry (API), 2004.

## General PTC Automotive Coating

Emission inventories - maximum emission estimates of all coatings analyzed and including booth heater emissions

. Criteria Air Pollutants	Booth Emissions	Heater Emissions	Combined Emissions	Booth Emissions	Healer Emissions	Combined Emissions	BRC Threshold		Below Threshold?
	lb/hr	10/hr	lb/hr	T/yr	T/YI	Yivi			
NO <sub>2</sub>	0.000	0.000	0.000	0.00	0.00	0.00	4	Thyr	Yes
co	0.000	0.000	0,000	0.00	0.00	0,00		Thr	Yes
PLI <sub>2 s.</sub> PIII. <sub>14</sub>	0.0259	0.0000	0.0259	0.1134	0.0000	0.1134	1	Tiyr	Yes
SO <sub>x</sub>	0.000	0.000	0.000	0.00	0.00	0.00	4	Tiyr	Yes
VOC	4.265	0.000	4.265	18.69	0.00	18.69	4	The	No
lead	0,E+00	0.E+00	0.E+00	0.E+00	0.E+00	0.E+00	0.06		Y45
	lb/mo	lb/mo	lb/mo	1242015	ne lie activos.	SEPTEMBER 1		2000	T-10-10-10-10-10-10-10-10-10-10-10-10-10-
	0.000	0.000	0.000	THE THE PARTY	SPACE SHOWING	10212-01		West Control	
PM2 5 / PM1, (uncontrolled)	1.295	0.000	1.295	5.68	0.00	5.68			3127223

PM2 3 / PM18 (Uncontrolled)	1.295	0.000	1.295	5.68	0.00	5.68
fazardous Air Poliutanis (HAP) and	Toyle 41- Delle		·			
ISECUOUS AN PONOTAINS (HAP) WIN	Booth	Heater	Combined	Combined		
	Emissions	Emissions	Emissions	Emissions	Modeling Threshold	Below Threshold?
	jb/hr	lb/hr	lb/hr	Tlyr	EL (lb/hr)	***************************************
Organic HAP PAH	2.765 Tel 2.0		COMMENTS.	Selection of the select	7 7 7 2	5
-Methylnaphihalene -Methylchlorgriftrene	0.00E+00	8,00E+00	0.00E+00	0.00E+00	9.10E-05	Yes
cenaphihene	0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	2 50E-05 9.10E-05	Yes
censphihylene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	Yes
vilhracene	0.00E+00	0,00E+00	0.00E+00	0.00E+00	9.10E-05	Yes
enzo(a)anthracene enzo(a)ovrene	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.10E-05	See POIA
denzo(b)/fuoranthene	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00E+00	2.00E-06	See POM
lenzo(g,h,l)perylene	0.00E+D0	0.00E+00	0.00E+00	0.00E+00	9.10E-05	Yes
enzo(k)šuoranihene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	100	See POM
hrysene Noenzola hianlivacene	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00	White said	See POM
Nchlorobenzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9 IDE-05	See POM Yes
,12-Dimethylben2(a)anthracena	0,00E+00	0.00E+00	0.00E+00	0.00E+00	9 10E-05	Yes
kioranthena Niorana	0.00E+00 0.00E+00	0.00E+00	0,00E+00	0.00E+00	9 10E-Q5	Yaş
deno(1,2,3-cd)pyrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00 0.00F+00	0 10E-05	Yes See POM
laphkhalene	5,34E-01	0.00E+00	5.34E-01	2.34E+00	3.33E+00	Yes
henanthrene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9 IDE-05	Yes
yrene olycyclic Organic Matter (POM, 7-PA)	0.00E+00 0.00E+00	0.00E+00	0.00E+00 0.00E+00	0.00E+00	9.10E-05 2.00E-06	Yes Yes
rganic HAP Non-PAH	CHEST STREET	TO WE W	J. O.WEYW	STATE OF THE	A SECTION	163
enzene	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04	Yes
thyl Benzent	1.40E-01	0.00E+00	1.40E-01	6,14E-01	2,90E+01	Yes
ormaklehyde examethylens Disocyanate (HD)	0.00E+03 2.00E-03	0.00E+00	0,00E+00 2,00E-03	8.74F-03	5.10E-04 2.03E-03	Yes
lexamethylens Disocyanale (HD Hexant	2.00E-03 4.00E-01	0.00E+00 0.00E+00	2.00E-03 4.00E-01	8.74E-03 1.75E+00	1.20E+01	Yes Yes
lathano .	3,72E-02	0.00E+00	3.72E-02	1.63E-01	1 73E+01	Yes
lethyl Chloroform fethyl Ethyl Kelone (NEK	0.00E+00 2.76E-01	0.00E+00	0.00E+00	0.00E+00	1 27E+02	Yes
lethyl Isobutyl Kelone (MEK	2.76E-01 2.87E-01	0.00E+00	2.76E-01 2.87E-01	1.21E+00 1.26E+00	3 93E+01	Yes
lethylene Düsocyanale (MDI	2.83E-03	0.00E+00	2.63E-03	1.24E-02	3 CCE-03	Yes
lyrans	5.73E-01	0.00E+00	5.73E-01	2.51E+00	6.87E+00	Yes
olvene.	4,38E-01	0.00E+00	4.38E-01	1.92E+00	2 50E+01	Yes
ylene rganic Non-HAP	5.38E-01	0.00E+00	5 38E-01	2.36E+00	2 50E+01	Yes
Melhoxy-2-Propanol Acetat	3.21E-01	0.00E+00	3 21E-01	1.41F+00	2-ME+01	Yes
celona	7,63E-01	0.00E+00	7.63E-01	3.34E+00	1 19E+02	Yes
Amyi Acetate utyi Acetate	1.65E-02	0.00E+00	1.66E-02	7.29E-02	3.53E+01	Yes
Butyl Alcoho	1,33E+00 1.10E+00	0.00E+00	1.33E+00 1.10E+00	5.84E+00 4.81E+00	4.73E+01 1.00E+01	Yes
arbon Black	1.05E-03	0.00E+00	1.05E-03	4.59E-03	2 30E-01	Yes
yclohexans	1.29E-02	0.00E+00	1.29E-02	5,64E-02	7 00E+01	Yes
isobulyi Keloni propylene Glycol Methyl Ethe	8.30E-02 2.12E+00	0.00E+00 0.00E+00	8.30E-02 2.12E+00	3.64E-01 9.28E+00	9.07E+CO 4.00E+01	Yes Yes
thyl Acetate	2.45E-01	0.00E+00	2.45E-01	1.07E+00	9 33E (01	Yes
thyl Alcohol	6.66E-02	0.00E+00	6.65E-02	2.92E-01	1 25E+02	Yes
eptene	9.30E-02	0.00E+00	9.30E-02	4.07E-01	1 09E+02	Yes
obutanol obutył Apelate	3.55E-01 7.33E-02	0.00E+00 0.00E+00	3.55E-01 7.33E-02	1.56E+0G 3.21E-01	1.00E+01 4.67E+01	Yes
ophorone Diisocyanale Polyme	2.50E-03	0.00E+00	2.50E-03	1.10E-02	6 00F-03	Yes Yes
opropyl Alcohol (IPA	6.63E-01	0.00E+00	6.63E-01	2.91E+00	6 53E+01	Yes
ethyl Aceiais	3.32E-01	0.00E+00	3.32E-01	1.45E+00	4.07E+01	Yes
ethyl Amyl Keloru ethyl Isgamyl Keloru	1.53E+00 7.85E-02	0,00E+00 0,00E+00	1.63E+00 7.85E-02	6.70E+00 3.44E-01	1.57E+01 1.60E+01	Yes
ethyl Propyl Ketoni	1.58E-01	0.00E+00	1,58E-01	6.90E-01	4.67E+01	Yes
CDD	0.00£400	0.00E+00	0.00E+00	0.00E+00	1.50E-10	Yes
entana ho sphoric Acid	0,00E+00 B.11E-04	0.00E+00 0.00E+00	0.00E+00 B.11E-04	0.00E+00 3.55E-03	1.18E+02	Yas
repionic Acid	1.51E-02	0.00E+00	1.51E-02	5.61E-02	8 70E-02 2,00E+00	Yes
loddard Solvent Mineral Spiril	6.74E-01	0.00E+00	6.74E-01	2.95E+00	3 50E+01	Yes
2,4 Trimethyl Benzeru M&P Naphina	1.88E-01	0.00E+00	1.88E-01	8.24E-01	8 20E+00	Yes
etal HAP	2.45E-01	0.00E+00	2,45E-01	1.07E+00	9 13E+01	Yes
ntimony	1.66E-03	0.00E+00	1.66E-03	8.17E-03	3.30E-02	Yes
rsenic	0.00E+00	0.00E+00	0.00E+00	0.00E+Q0	1.50E-06	Yes
ery¥ivm admium	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	2.E0E-05 3.70E-06	Yes
yomkun Iti	5.63E-04	0.00E+00	5.63E-04	2.47E-03	3.70E-06 3.30E-02	Yes Yes
oball	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3 30E-03	Yes
opper	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-02	Yes
anganeso	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	9.70E-02 3.00E-03	Yes
otybdenum	0.00E+00	0.00E+00	0.00E+00	0.00€+00	333E-01	Yes
ckel	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-05	Yes
elenium enadken	0.00E+00 0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.306-02	Yes
10	0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	0.00E+00 0.00E+00	3,00E-03 0.67E-01	Yes Yes
etal Hon-HAP		1000000000	cia George → S		<b>第二次</b> 第二次	
urrvinom	4,66E-01	0.00E+00	4.66E-01	2.04E+00	5.67E-01	Yes
ndum organio Non-HAP	2.17E-04	0.00E+00	2.17E-04	9.50E-04	3.50E-02	PRINCE
alcium Carbonale	1.30E-03	0.00E+00	1.30E-03	5.70E-03	6 67 E-01	Yes
oln	3.93E-03	0.00E+00	3.93E-03	1.72E-02	1 33E-01	Yes
ica	1.09E-04	0.00E+00	1.09E-04	4.79E-04	2 00 E-01	Yes
lica Amorphous	1.67E-03 1.12E-03	0.00E+00 0.00E+00	1.67E-03 1.12E-03	7.30E-03 4.92E-03	6.67E-01 8.67E-01	Yes
ika Sikon Dioridt	2.56E-03	0.00E+00	2.56E-03	1.12E-02	6.70E-03	Yes
		HAP <sub>TOT</sub>	2.695	11.82		

Assumptions when estimating apray booth heater emissions:
- Maximum gas-fired heater size
- Maximum gas-fired heater size
- Maximum gas-fired heater size
- Anousi heater operation
- Anousi heater operation
- (1,000) MARBUM-MASCI
- (1,000) MASCI
- (1,000) MA Assumptions when estimating spray booth emissions:

- Maximum coating use rates Assumptions when estimating spray booth emissions:

- Mandmum coating one rises

- Averaging pariod

- Satio, Yalia

- Satio, Yali Assumptions when estimating spray booth MDI emissions from truck bed linking.

Spray booth makes a stimated referencing the equition and assumption from truck bed linking.

Spray booth makes aware astimated referencing the equition and assumption from section 18 of a inhaltitude mode. MDI Emissions Stepations Guidating from Percentage Lodge. All spray of the Control of the Contr Assumptions when estimating additional VOC emissions from truck bed finer "B" component (VOC from the "to" component were accounted for within the snatyles for the 4 gaiday final "Assimum" "B" use rate 400 gaiday (I:) by volume A:B mixture) · Safety factor 1.00 allowance for coatings not analyze

Maximum coating densit 8.83 buyst (from "Brd Liner B" sheet
 Averaging periox 24 briday average
 VOC emissions 1.47 buystance
 B component does a not contain HAP or TAP substance

100% Level II / Level III

TAP EL Modeling Threshold Multiple